AQUATOP
AQUATIC SUPPLIES

CF | SERIES
CANISTER FILTER

INTRO

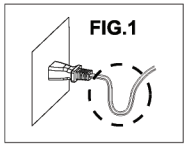
THANK YOU FOR CHOOSING AQUATOP'S CF SERIES OF CANISTER FILTERS. THE CF SERIES IS A DIVERSE LINE THAT INCLUDES TWO MODELS WITH INTEGRATED UV STERILIZATION TO ERADICATE UNWANTED ALGAE AND HARMFUL DISEASE CAUSING PATHOGENS (CF400-UV & CF500-UV). ALL MODELS HAVE A CONVENIENT SELF-PRIMING PUMP THAT ELIMINATES THE NEED FOR MANUAL SIPHONING. THE CF300 AND CF400-UV HAVE THREE FILTRATION MEDIA TRAYS FOR COMPLETE CUSTOMIZATION WHILE THE CF500-UV HAS FOUR MEDIA TRAYS FOR INCREASED FILTERING CAPACITY. FILTRATION MEDIA CAN BE PURCHASED SEPARATELY AT WWW.TRUAQUA.COM. PLEASE NOTE THAT WHILE FILTRATION EQUIPMENT CAN HELP KEEP YOUR AQUARIUM CLEAR, IT SHOULD NEVER BE USED AS A SUBSTITUTE FOR A REGULAR CLEANING AND MAINTENANCE ROUTINE.

CAUTION/SAFETY INFORMATION

IT IS YOUR SOLE RESPONSIBILITY TO VERIFY THAT THE PLUG AND THE RECEPTACLE ARE CLEAN AND FREE OF MOISTURE AND SALT BUILD-UP AT ALL TIMES. THE RECEPTACLE MUST BE FREE OF WATER, SALT, CALCIUM, MAGNESIUM AND DUST. FAILURE TO DO SO CAN CAUSE FIRE, DAMAGE TO PROPERTY, AND PERMANENT DAMAGE TO THE PRODUCT AND PERSONAL IN.JURY NOT LIMITED TO LOSS OF LIFE.

1) READ AND FOLLOW ALL INSTRUCTIONS.

2) A DRIP LOOP MUST BE USED WITH ALL ELECTRICAL AQUARIUM DEVICES. A DRIP LOOP IS A SELF-MADE PART OF THE CORD HANGING BELOW THE RECEPTACLE.
► **(SEE FIG. 1)**



3) A GFCI (GROUND FAULT CIRCUIT INTERRUPTER) SHOULD BE USED IN THE BRANCH CIRCUIT SUPPLYING ALL POWER TO WATER PUMPS AND ELECTRICAL AQUARIUM EQUIPMENT. IF YOU DO NOT HAVE A GFCI, WE STRONGLY RECOMMEND HAVING A QUALIFIED ELECTRICIAN INSTALL ONE PRIOR TO OPERATING ANY AQUARIUM COMPONENT.

4) DO NOT PLUG INTO EXTENSION CORD/POWER STRIP

5) USE THIS PRODUCT FOR ITS INTENDED USE ONLY.

6) NEVER YANK OR PULL THE CORD FROM THE ELECTRICAL OUTLET.

7) DO NOT OPERATE IF THE PLUG OR WIRE IS DAMAGED.

8) DO NOT OPERATE WITHOUT WATER.

9) VERIFY THAT HANDS ARE DRY PRIOR TO DISCONNECTING THE POWER.

10) TO REDUCE THE RISKS OF ELECTROCUTION, KEEP ALL CONNECTIONS DRY.

11) FOR INDOOR USE ONLY.

12) IF THE PRODUCT FALLS INTO WATER, DO NOT REACH FOR IT. FIRST, UNPLUG THE UNIT. THEN RETRIEVE THE UNIT FROM THE WATER. IF ANY OF THE ELECTRICAL COMPONENTS GET WET, UNPLUG IMMEDIATELY.

13) DO NOT USE SOAPS OR DETERGENTS WHEN CLEANING THIS DEVICE. THOROUGHLY CLEAN AND RINSE WITH WARM WATER AND MAKE SURE THE DEVICE IS COMPLETELY DRY BEFORE CONNECTING.

14) DO NOT DISASSEMBLE THE U.V. LAMP WHILE CONNECTED TP POWER OR TURNED ON.

15) DO NOT LOOK DIRECTLY INTO THE U.V. LAMP WHEN PLUGGED IN, SINCE UV LIGHT MAY DAMAGE YOUR EYESIGHT. ALWAYS KEEP COVER ON WHEN UV LIGHT IS IN USE.

16) KEEP THIS PRODUCT AWAY FROM CHILDREN

Note: Always disconnect power to unit before performing any maintenance or bulb replacement.

Set-Up & Assembly Guide

How the CF Canister Filter Works

Unfiltered aquarium water comes into the CF Canister via the input/intake line and passes by the U.V. Sterilizing Bulb first. (The CF-300 does not come with a U.V. Sterilizing Bulb but assembles and filters in the exact same manner as the CF-400 and CF-500.) The water moves down the stack of vertical cylinder cutouts and to the bottom of the CF unit. The water is then pushed up through the filter compartments, the bottom compartment first, the middle compartment second, and the top compartment third. The filtered aquarium water then returns from the CF Canister and back into the aquarium via the output/return line.

Note: Check unit for any signs of damage. If signs of damage are present, return to original place of purchase.

1) Remove CF Canister Filter from the AQUATOP box and set the extras aside. Face the canister unit toward yourself with the power cord running out the back.

2) To remove the barrelhead you must first unhinge the clips that are in front and back of the unit. These two clips are attached to the bottom of the unit. Next unhinge the clips that are left to right. These two clips are attached to the barrelhead. Remove the barrelhead by pulling it up vertically. (Be careful of the U.V. Sterilizing bulb when removing or securing the barrelhead on the CF-400UV & CF-500UV.) ► **(See Figs. 1 &2)**

3) Remove all filter compartments. Note how the filter compartments are stacked to support the U.V. Sterilizing Bulb. The vertical cylinder cutouts of the filter compartments are to be stacked one on top of another and act as a sheath for the U.V. Sterilizing Bulb.

4) Rinse all filtration compartments and all filtration media (sold separately): Cotton Filter(s), Sponge Filter, and Bio-Balls. Important: Rinse the Carbon Filter(s) until the run-off water is clear. The carbon may take a few minutes to rinse clear.

5) Rinse out the bottom portion of the CF unit.

6) Stack the Filtration Compartments from the bottom up. The bottom/first compartment should receive the Sponge Filter on the bottom with a Cotton Filter on top. The middle/second compartment should receive a Cotton Filter on the bottom with the Carbon Filter(s) on top. The top/third compartment should receive a Cotton Filter on the bottom with Bio-Balls or AQUATOP's ceramic rings on top. The top/third compartment receives the Filter Compartment Cover.

7) The barrelhead goes back on top (be careful of the U.V. Sterilizing Bulb). The clips attached to the barrelhead must be hinged into place first. (Give a light downward push on the barrelhead to engage the bottom half of the unit.) Next, the clips attached to the bottom portion on the unit must be hinged into place. ► **(See Figs 1 &2.)**

8) To secure the input and output valve, you must pull up on the lever located between the input and output nozzles. Next insert the valve into designated area on top of the barrelhead. Push into place firmly and push lever down. The input and output valve is now open and secured to the canister filter. ► **(See Fig 3.)**

9) How to secure intake and return tubing to the CF Canister Filter: First slip the tubing over the nozzles located on top of the input and output valve. Slip the tubing on until it can go down no further. Next turn the fasteners, located at the base of the nozzles, until they have covered the tubing. The two fasteners secure the tubing by crimping them down onto the nozzles for a watertight effect. Finally give a slight tug on the tubing to see if they are attached well. ► **(See Fig. 3)**

10) Next assemble the intake and return lines and hang on the aquarium walls where desired. Secure the two items with the suction cups and clips provided. (These items are disassembled in the white box that comes with the CF Canister Filter. ► **(See Fig. 4)**

11) Place CF Canister Filter (with attached/secured tubing) where desired. Cut vinyl tubing to appropriate length and attach to the appropriate assembled input and output fittings. The output line running from the canister filter will attach to the horizontally mounted Spray Bar. The input line running from the canister filter will attach to the vertically mounted Input Bar that has the Input Cover. ► **(See Fig 4.)**

12) Before plugging in your CF Canister Filter you must fill it using the Prime Pump. The Prime Pump fills the canister filter and tubing by creating a siphon (gravity fed). The Prime Pump is a round button located on the top of the barrelhead. Your aquarium must be filled with water to do this. With a filled aquarium, compress and depress the Prime Pump to remove air from the canister filter and to draw in water into the canister filter. Once water is present in the filter and in the tubing, you are ready to go.

FIG.1

FIG.2

FIG.3

FIG.4

13) Check for leaks. If there are none, plug in the CF Canister Filter.

14) Check for leaks again. If there are none, enjoy the use of your CF Canister Filter

MAINTENANCE

AquaTop recommends regular maintenance to keep the CF Series Canister Filter running at maximum efficiency.

• Mechanical Filtration – When Filter Pads and/or Filter Cotton contain debris clean or replace.

• Chemical Filtration – When Activated Carbon is exhausted replace. This usually happens within 30 -45 days depending on the bio-load of an aquarium.

• Biological Filtration – When Ceramic Rings or Bio-Balls become laden with debris rinse with clean aquarium water. This can simply be done in medium sized container with water from the aquarium. AquaTop does not recommend rinsing Biological Filtration Media neither inside the aquarium nor with tap water. AquaTop does not recommend exposing cultured Biological Media to air for prolonged periods of time. This can kill off a great percentage of the existing bacterial colonies.

• Cleaning the Quartz Sleeve – This should be done at a minimum every time the UV Bulb is replaced. Please reference Bulb Replacement for uninstalling the UV Quartz Sleeve. AquaTop recommends soaking the Quarts Sleeve in a water and vinegar solution to help remove the heavy metal and salt deposits which may be impeding the ability of the UV Light penetrating into the water column.

BULB REPLACEMENT

Note: Never replace the UV bulb when the unit is plugged in or has power. After 6-9 months of use, AquaTop strongly recommends replacing the UV Bulb for maximum efficiency.

CF-400

1) Loosen bolt securing quartz tube that covers UV lamp

2) Turn quartz tube until it is free

3) Lift quartz tube to expose UV lamp

4) Lift UV lamp and replace

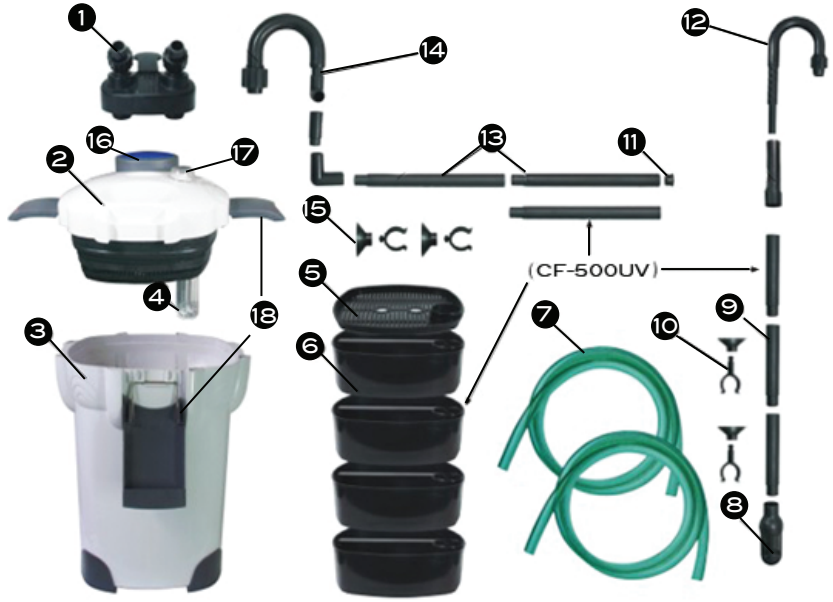
CF-500

1) Turn quartz tube that covers UV lamp until the ridges line up with the gap in barrelhead.

2) Lift quartz tube to expose UV lamp

3) Lift UV lamp and replace

PRODUCT DIAGRAM



Suggested Filtration Media

Filter Sponge | Activated Carbon | Enhanced Bio-Balls | Ceramic Rings

PARTS LISTING

1	Input & Output Valve	7	Filter Compartments (CF-500UV 4 trays)	13	Output Bar Cup
2	Barrelhead	8	Tubing for Input /Output Bar	14	Curved Input Bar Hanging Tube
3	Main Body Enclosure	9	Input Cover	15	Output Sprays Bar
4	9 Watt UV Light Bulb (CF-400 / CF-500UV)	10	Input Bar	16	Curved Output Bar Hanging Tube
5	Filter Compartment Cover / Pre-Filter	11	Suction Cups for Input Bar Mount	17	Suction cups for Output Bar Mount
6	Prime valve / button	12	UV sterilizer ON / OFF switch	18	CF Filter clips for water tight seal

TROUBLESHOOTING

ISSUE	PROBLEM	SOLUTION
Compressing & depressing self-priming pump has no response	Input / Output Tubing is attached is in error onto input / output valve.	Re-attached input / output tubing on to input / output valve. Switching sides to which they are attached
The Motor is not Operating	The Power is Off	Turn on the Power
	The shaft is broken The impeller is missing or the motor is clogged with a foreign object such as pebbles or shells	Turn on the power Replace the Shaft re-set the impeller or clean out the motor system
Slow or inhibited water flow	Tubing or input / output valve is extremely dirty Hoses have been incorrectly connected	Periodically clean the inside of the tubing as well as input / output valve Check whether the tubing is tangled or crimped
	Filter Media is Clogged	Remove filter media and replace or clean
Abnormal sound is emitted when the filter is turned on	Air is entering the hose connection Air is trapped in the filter's main body enclosure	Check whether the hoses are connected properly Leaving the power on, shake the unit to help remove trapped air.
Abnormal sound is emitted when the filter is operating	Damaged impeller / drive magnet or spindle	Replace impeller / drive magnet. (contact aquatop for parts)
	Decreased water flow due to dirty impeller / drive magnet	Remove impeller system and clean
	Insufficent lubrication	Apply ample lubrication to all O-rings

SPECIFICATIONS

MODEL	CF-300	CF-400UV	CF-500UV
VOLTAGE	120V / 60Hz	120V / 60Hz	120V / 60Hz
WATTAGE	18 Watts	35 Watts	55 Watts
UV WATTAGE	NONE	9 Watts	9 Watts
GALS/ HR	264	370	525
FILTER COMPARTMENTS	3	3	4

AQUATOP 180-DAY LIMITED WARRANTY

Products are warrantied by AQUATOP Aquatic Supplies to the original purchaser against defective material and workmanship under normal use for a period of 180 days from the date of the original purchase. AQUATOP Elite products carry a warranty of one year from the date of original purchase. Products have no warranty if: 1) the product has been serviced, modified or tampered with by anyone other than AQUATOP Aquatic Supplies, 2) the product has been abused or damaged (including broken or cracked bulbs), and/or 3) the product has been transported without proper packaging. Note: U.V. Bulbs are not covered under warranty.

For more information on tank maintenance and health, as well as other products available from AQUATOP, visit www.aquatop.com.
V1 / 2011